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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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William R. McClellan Wolf, Greenfield & Sacks, P.C. 600 Atlantic Avenue Boston, MA 02210			EXAMINER HUANG, DAVID S	
			ART UNIT 2611	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/769,996

Applicant(s)

AN ET AL.

Examiner

DAVID HUANG

Art Unit

2611

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) 4, 5, 16 and 17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-15 and 18-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/S508)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1 and 13 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-3, 6, 7, 9-15, 18, 19, 21-24** are rejected under 35 U.S.C. 103(a) as being unpatentable over Levin (US Patent 6,639,906) in view of Bultan et al. (US 7,206,335).

Regarding **claims 1 and 13**, Levin discloses a method for processing a spread spectrum (system and method for performing digital receive processing, Abstract, lines 1-2; and each reverse link signal is modulated and demodulated with a set of PN codes in accordance with CDMA techniques, column 5, lines 28-30) baseband signal (receiver 102 filters, downconverts and digitizes a 1.25 MHz band of the RF energy that includes the set of reverse link signals, column 4, lines 60-67; where receiver 102 generates the baseband signal), comprising:

despreading samples of the baseband signal (demodulator 112 retrieves samples from circular buffer RAM 106 and despreads a set of reverse link signals stored therein, column 5, lines 24-28; Figure 4) with two or more instances of a spreading code (the same PN code segment is used to demodulate up to four instances of a particular reverse link signal, column 8, lines 45-46), the instances of the spreading code successively offset relative to the signal

samples, to provide two or more despread results (each XOR bank 204-210 receives the PN code being discovered and applies the PN code to the samples at offsets of $\frac{1}{2}$ the duration of a spreading chip from one another yielding 0.0, 0.5, 1.0, and 1.5 chip offset despread data, column 8, lines 29-39, Figure 4); and

interpolating the two or more despread results (on-time interpolation circuit 214 receives both 0.5 chip offset despread data and 1.0 chip offset despread data, and calculates a value for on-time despread data at an offset of 0.5, 0.625, 0.75, or 0.875 using interpolation, column 9, lines 12-16) based on a previously estimated finger location (column 6, lines 26-40, Time tracking system 119, Fig. 4) to provide a symbol estimate (demod FHT bank 116 receives the on-time despread data from demodulator 112 and generates on-time soft decision data, column 6, lines 13-16), wherein interpolating the two or more despread results includes selecting the despread results around the previously estimated finger location (column 8, line 66 - column 9, line 30; chip offset despread data).

However, Levin fails to expressly disclose wherein interpolating the two or more despread results includes selecting interpolation coefficients based on the previously estimated finger location.

Bultan et al. teach an interpolation feedback circuit with an timing error estimator 16, (Fig. 1) determines a timing error estimate which is passed to an interpolator controller 18 (Fig. 1) that produces a fractional delay estimate which is quantized in quantizer 19 (Fig. 1). A set of stored predetermined interpolator coefficients associated with the quantized fractional delay estimate closest to in value to the actual fractional delay estimate are passed to the interpolator to process a received signal (column 2, lines 28-46; code tracker 10, Fig. 1). Bultan et al. also teach

a RAKE-like receiver with one code tracker 10 dedicated to each path used (column 3, lines 48-51). It is implicit that the coefficients correspond to a "previously estimated finger location" since the delayed output by interpolator 14 is fed back to the timing error estimator and the process is repeated (column 8, lines 26-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Levin with the interpolation teaching of Bultan et al. since it optimizes the interpolation in Levin and reduces timing error efficiently using only a limited number of coefficients (column 9, lines 58-61).

Regarding **claim 2**, Levin discloses everything claimed as applied above (see *claim 1*), and further discloses wherein the samples of the baseband signal are oversampled at two to four times a chip rate (digitized samples are provided at two (2) times the spreading chip rate, column 4, line 67 – column 5, line 1).

Regarding **claim 3**, Levin discloses everything claimed as applied above (see *claim 2*), and further discloses wherein the step of interpolating the two or more despread results produces an effective sampling of the baseband signal at eight times the chip rate (early interpolation circuit 212 calculates a value for a despread data offset by 0, 0.125, 0.25, or 0.375 of the duration of a chip (intervals of $1/8^{\text{th}}$ the chip duration) before the current offset using interpolation, column 8, line 64 – column 9, line 3).

Regarding **claim 6**, Levin discloses everything claimed as applied above (see *claim 1*), and further discloses wherein the step of interpolating the two or more despread results comprises multiplying the selected despread results by respective selected interpolation coefficients (on-time interpolation circuit 214 receives 0.0 and 0.5 chip offset despread data and

calculates an interpolated value using an FIR filter, column 8, line 66 – column 9, line 11; note that it is inherent to an FIR filter to multiply samples with tap coefficients) to provide intermediate values (calculates a value for on-time despread data, column 9, line 14) and summing the intermediate values (demod FHT bank 116 receives the on-time despread data from demodulator 112, and accumulates energy correlation vectors, column 9, lines 47-48; the originally received on-time despread data from demodulator 112 is processed within demod FHT 116 into a from accumulated by Accumulator 306, column 9, lines 31-50; see Figure 6) to provide the symbol estimate (Demod FHT bank 116 generates on-time soft decision data, column 6, lines 13-16).

Regarding **claim 7**, Levin discloses everything claimed as applied above (see *claim 1*), and further discloses wherein the step of interpolating the two or more despread results is repeated at a symbol rate (during each Walsh symbol, system PN code generator 115 provides 72 bits of system PN code data to demodulator PN code generator 114, and demodulator 112 demodulates a set of reverse link signals using the PN codes supplied by demodulator PN code generator 114, column 8, lines 2-11; since interpolation circuits 212, 214, and 216 receive despread data from XOR banks 204-210 that demodulate up to four instances of a particular reverse link signal before the PN code for the next reverse link signal is latched, column 8, lines 40-46, the interpolation occurs for each set of despread data during each Walsh symbol, a symbol rate).

Regarding **claim 9**, Levin discloses everything claimed as applied above (see *claim 1*), and further discloses wherein successive instances of the spreading code are offset by one half

chip relative to the signal samples (applies the PN code to the samples at offsets of $\frac{1}{2}$ the duration of a spreading chip from one another, column 8, lines 33-35).

Regarding **claim 10**, Levin discloses everything claimed as applied above (see *claim 1*), and further discloses wherein the steps of despreading samples of the baseband signal and interpolating the two or more despread results are performed by a programmable digital signal processor (digital processing system 104 exchanges control data with an external control system preferably comprised of a microprocessor running software stored in memory, column 4, lines 50-53).

Regarding **claim 11**, Levin discloses everything claimed as applied above (see *claim 10*), but fails to particularly disclose wherein the step of despreading samples of the baseband signal comprises performing a plurality of despreading operations simultaneously.

Levin does disclose each XOR bank receives the PN code being discovered and applies the PN code to the samples at offsets of $\frac{1}{2}$ the duration of a spreading chip from one another yielding 0.0, 0.5, 1.0, and 1.5 chip offset despread data (column 8, lines 32-37; Figure 5), and early, on-time and late interpolation circuits (212, 214, and 216, respectively; see Figure 5) each receive two sets offset despread data to calculate interpolated values (column 8, line 66 – column 9, line 30; see Figure 5). Furthermore, the same PN code segment is used to demodulate up to four instances of a particular reverse link signal.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Levin's invention to perform a plurality of despreading operations simultaneously, as claimed, since the plurality of despread results must be received by the interpolation circuits at the same time to ensure proper operation and calculation of interpolated

values and simultaneous despreading operations would improve the efficiency of operation by taking full advantage of the parallel structure of the XOR banks.

Regarding **claim 12**, Levin discloses everything claimed as applied above (see *claim 1*), but fails to explicitly disclose wherein interpolating the two or more despread results comprises:

interpolating the two or more despread results using interpolation coefficients corresponding to the estimated finger location,

interpolating the two or more despread results using interpolation coefficients corresponding to a time earlier than the estimated finger location, and

interpolating the two or more despread results using interpolation coefficients corresponding to a time later than the estimated finger location.

Nevertheless, Levin does disclose on-time interpolation circuit 214 receives 0.5 and 1.0 chip offset despread data, and calculates a value for on-time despread data at an offset of 0.5, 0.625, 0.75, or 0.875 (at offsets of intervals of $1/8^{\text{th}}$ the chip duration) of using interpolation, depending on the current offset of the finger being processed (column 9, lines 12-17). Early interpolation circuit 212 receives 0.0 and 0.5 chip offset despread data and calculates a value for despread data offset by 0.5 relative to on-time interpolation circuit 214 (column 8, lines 66-67 and column 9, lines 3-6). Late interpolation circuit receives 1.0 and 1.5 chip offset despread data and calculates a value for despread data delayed 0.5 the duration of a spreading chip from on-time despread data (column 9, lines 18-20 and 23-25). Levin also discloses the use of simple linear interpolation or any seven tap FIR is appropriate for implementing early interpolation circuit 212 (column 9, lines 8-11), and linear interpolation or a 15 tap FIR is suitable for implementing late interpolation circuit 216 (column 9, lines 26-30).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Levin's invention to implement on-time interpolation circuit 214 using an FIR filter as suggested by Levin for both early and late interpolation circuits 212 and 214, respectively, since interpolating values in the same way for all three interpolation circuits 212, 214, 216 would reduce development time. Furthermore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use interpolation coefficients corresponding to the estimated finger location for interpolation circuits 212, 214, and 216 because the circuits calculate interpolated values at one of four offsets and require different coefficients for each offset.

Regarding **claim 14**, Levin discloses everything claimed as applied above (see *claim 13*), and further discloses wherein the samples of the baseband signal are oversampled at two to four times a chip rate (digitized samples are provided at two (2) times the spreading chip rate, column 4, line 67 – column 5, line 1).

Regarding **claim 15**, Levin discloses everything claimed as applied above (see *claim 14*), and further discloses wherein the means for interpolating the two or more despread results performs an effective sampling of the baseband signal at eight times the chip rate (early interpolation circuit 212 calculates a value for a despread data offset by 0, 0.125, 0.25, or 0.375 of the duration of a chip (intervals of $1/8^{\text{th}}$ the chip duration) before the current offset using interpolation, column 8, line 64 – column 9, line 3).

Regarding **claim 18**, Levin discloses everything claimed as applied above (see *claim 13*), and further discloses wherein the step of interpolating the two or more despread results comprises multiplying the selected despread results by respective selected interpolation

coefficients (on-time interpolation circuit 214 receives 0.0 and 0.5 chip offset despread data and calculates an interpolated value using an FIR filter, column 8, line 66 – column 9, line 11; note that it is inherent to an FIR filter to multiply samples with tap coefficients) to provide intermediate values (calculates a value for on-time despread data, column 9, line 14) and summing the intermediate values (demod FHT bank 116 receives the on-time despread data from demodulator 112, and accumulates energy correlation vectors, column 9, lines 47-48; the originally received on-time despread data from demodulator 112 is processed within demod FHT 116 into a from accumulated by Accumulator 306, column 9, lines 31-50; see Figure 6) to provide the symbol estimate (Demod FHT bank 116 generates on-time soft decision data, column 6, lines 13-16).

Regarding **claim 19**, Levin discloses everything claimed as applied above (see *claim 13*), and further discloses wherein the means for interpolating the two or more despread results operates at a symbol rate (during each Walsh symbol, system PN code generator 115 provides 72 bits of system PN code data to demodulator PN code generator 114, and demodulator 112 demodulates a set of reverse link signals using the PN codes supplied by demodulator PN code generator 114, column 8, lines 2-11; since interpolation circuits 212, 214, and 216 receive despread data from XOR banks 204-210 that demodulate up to four instances of a particular reverse link signal before the PN code for the next reverse link signal is latched, column 8, lines 40-46, the interpolation occurs for each set of despread data during each Walsh symbol, a symbol rate).

Regarding **claim 21**, Levin discloses everything claimed as applied above (see *claim 13*), and further discloses wherein successive instances of the spreading code are offset by one half

chip relative to the signal samples (applies the PN code to the samples at offsets of $\frac{1}{2}$ the duration of a spreading chip from one another, column 8, lines 33-35).

Regarding **claim 22**, Levin discloses everything claimed as applied above (see *claim 13*), and further discloses wherein the means for despreading and the means for interpolating are implemented by a programmable digital signal processor (digital processing system 104 exchanges control data with an external control system preferably comprised of a microprocessor running software stored in memory, column 4, lines 50-53).

Regarding **claim 23**, Levin discloses everything claimed as applied above (*claim 22*), but fails to particularly disclose wherein the means for despreading samples of the baseband signal comprises means for performing a plurality of despreading operations simultaneously.

However, Levin does disclose each XOR bank receives the PN code being discovered and applies the PN code to the samples at offsets of $\frac{1}{2}$ the duration of a spreading chip from one another yielding 0.0, 0.5, 1.0, and 1.5 chip offset despread data (column 8, lines 32-37; Figure 5), and early, on-time and late interpolation circuits (212, 214, and 216, respectively; see Figure 5) each receive two sets offset despread data to calculate interpolated values (column 8, line 66 – column 9, line 30; see Figure 5). Furthermore, the same PN code segment is used to demodulate up to four instances of a particular reverse link signal.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Levin's invention to perform a plurality of despreading operations simultaneously, as claimed, since the plurality of despread results must be received by the interpolation circuits at the same time to ensure proper operation and calculation of interpolated

values and simultaneous despreading operations would improve the efficiency of operation by taking full advantage of the parallel structure of the XOR banks.

Regarding **claim 24**, Levin discloses an apparatus for processing a spread spectrum (system and method for performing digital receive processing, Abstract, lines 1-2; and each reverse link signal is modulated and demodulated with a set of PN codes in accordance with CDMA techniques, column 5, lines 28-30) baseband signal (receiver 102 filters, downconverts and digitizes a 1.25 MHz band of the RF energy that includes the set of reverse link signals, column 4, lines 60-67; where receiver 102 generates the baseband signal), comprising:

a digital signal processor (digital processing system 104, Figure 4) including a memory for holding instructions (digital processing system 104 exchanges control data with a microprocessor running software stored in memory, column 4, lines 50-53) and data (digital samples are received by RAM interface 103 which stores the 2xsamples in antenna interface circular buffer RAM 106, column 5, lines 8-10), program sequencer for controlling execution of an instruction sequence (control system 110, Figure 4) and at least one computation block for executing the instruction sequence (demodulator despreader 112 and demod FHT bank 116), said computation block including means for despreading samples of the baseband signal (XOR banks 204-210, Figure 5) with two or more instances of a spreading code (the same PN code segment is used to demodulate up to four instances of a particular reverse link signal, column 8, lines 45-46), the instances of the spreading code successively offset relative to the signal samples, to provide two or more despread results (each XOR bank 204-210 receives the PN code being discovered and applies the PN code to the samples at offsets of $\frac{1}{2}$ the duration of a spreading chip from one another yielding 0.0, 0.5, 1.0, and 1.5 chip offset despread data, column 8, lines 29-39,

Figure 4), and means for interpolating the two or more despread results (on-time interpolation circuit 214 receives both 0.5 chip offset despread data and 1.0 chip offset despread data, and calculates a value for on-time despread data at an offset of 0.5, 0.625, 0.75, or 0.875 using interpolation, column 9, lines 12-16) based on a previously estimated finger location (column 6, lines 26-40, Time tracking system 119, Fig. 4) to provide a symbol estimate (demod FHT bank 116 receives the on-time despread data from demodulator 112 and generates on-time soft decision data, column 6, lines 13-16), wherein the means for interpolating the two or more despread results includes means for selecting the despread results around the previously estimated finger location (column 8, line 66 - column 9, line 30; chip offset despread data).

However, Levin fails to expressly disclose the means for interpolating the two or more despread results includes means for selecting interpolation coefficients based on the previously estimated finger location.

Bultan et al. teach an interpolation feedback circuit with an timing error estimator 16, (Fig. 1) determines a timing error estimate which is passed to an interpolator controller 18 (Fig. 1) that produces a fractional delay estimate which is quantized in quantizer 19 (Fig. 1). A set of stored predetermined interpolator coefficients associated with the quantized fractional delay estimate closest to in value to the actual fractional delay estimate are passed to the interpolator to process a received signal (column 2, lines 28-46; code tracker 10, Fig. 1). Bultan et al. also teach a RAKE-like receiver with one code tracker 10 dedicated to each path used (column 3, lines 48-51). It is implicit that the coefficients correspond to a "previously estimated finger location" since the delayed output by interpolator 14 is fed back to the timing error estimator and the process is repeated (column 8, lines 26-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Levin with the interpolation teaching of Bultan et al. since it optimizes the interpolation in Levin and reduces timing error efficiently using only a limited number of coefficients (column 9, lines 58-61).

4. **Claims 8 and 20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Levin (US 6,639,906) in view of Bultan et al. (US 7,206,335) as applied to claims 1 and 13 above, and further in view of Komatsu (US 6,816,542).

Regarding **claims 8 and 20**, Levin discloses everything claimed as applied above (see *claims 1 and 13*), and further discloses wherein despreading and means for despreading samples of the baseband signal comprises multiplying the samples by respective code elements (each XOR bank 204-210 receives the PN code being discovered and applies the PN code to the samples, column 8, lines 32-34) to provide intermediate values (yielding 0.0, 0.5, 1.0, and 1.5 chip offset despread data column 8, lines 34-36).

However, Levin fails to disclose accumulating the intermediate values to provide a despread result.

Nevertheless, Levin does teach that demod FHT bank 116 receives the on-time despread data from demodulator 112 (column 6, lines 13-14), 32x2 FHT 300 perform fast Hadamard transforms on in-phase (I) and quadrature phase (Q) components, adder-subtractor butterfly combiner 308 combines the output from the even and odd samples yielding an I correlation vector and a Q correlation vector (column 9, lines 33-35 and 40-43). I-Q dot product 304 generates the dot product of the I and Q correlation vectors yield a correlation energy vector that

is forwarded to accumulator 306 which accumulates the energy correlation vectors from I-Q dot product 304 (column 9, lines 47-49).

Komatsu discloses interpolative despreader 5 comprising received signal shift register 21, spreading code register 22, multipliers 23, and adder 24. Received signal shift register 21 shifts received signals received by interpolative despreader 5. Spreading code register 22 sets a spreading code sequence of the same bit length as received signal shift register 21. Multipliers 23 multiply the values of received signal shift register 21 and spreading code register 22 together. Adder 24 adds together the output signals of multipliers 23 (column 4, lines 38-47; see Figure 7).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Levin's invention to accumulate intermediate values as taught by Komatsu because this would reduce the complexity of the invention by allowing accumulation without having to process the intermediate symbols in demod FHT bank 116.

Citation of Pertinent Prior Art

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

El-Tarhuni et al. (US 7,201,828) teaches fine estimation of multipath delays in spread spectrum signals that uses interpolation to find delay with better demodulation (greater SNR).

Agami et al. (US 2002/0141482) teaches interpolating received signals based on multiple predetermined filter coefficients and at least one dynamically determined coefficient (Fig. 5).

Sato (US 5,982,763) teaches interpolating correlated output signal R and peak detection for obtaining the peak Popt and determining an optimum reception timing topt.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Huang whose telephone number is (571) 270-1798. The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on (571) 272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DSH/dsh
4/16/2008
/David Huang/
Examiner, Art Unit 2611
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